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Integrating Observations of the Boundary Current Flow around Sri Lanka

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LONG-TERM GOALS

To investigate the ocean circulation by making in-situ observations of bottom pressure and vertical acoustic travel time at two sites near Sri Lanka.

OBJECTIVES

Deploy and operate two seafloor instruments called PIES (pressure-sensing inverted echo sounders) in collaboration with partners from Sri Lanka.

APPROACH

PIES instruments sit on the seafloor and measure pressure and travel time of an acoustic signal between the seafloor and the surface. Together, these measurements represent the integrated mass and heat content of the water column, which in turn allows an indirect estimate of the currents.

WORK COMPLETED

The work has only begun a short time before this report was written, therefore there are no results or publications yet. The work completed was to prepare the instruments for deployment, consisting of:

- site visit by Prof. Uwe Send to liaise with Sri Lankan scientists and inspect deployment vessel
- assemble and test the instruments at Scripps Institution of Oceanography
- ship the instruments to Sri Lanka for deployment

As of Sept. 2014, the instruments are in Sri Lanka, ready for deployment.

RESULTS

Not applicable.

IMPACT/APPLICATIONS

Not applicable.

RELATED PROJECTS

None.